

WARM SPRINGS FOREST PRODUCTS INDUSTRIES

August 16, 1990

Mr. Ron Culver
U.S. Environmental Protection Agency
Oregon Operations Office
811 S.W. 6th Ave.
Executive Building 3rd Floor
Portland, OR 97204

Dear Mr. Culver:

Please find enclosed a copy of soil sample taken after removal of 10,000 gallon diesel underground storage tank. The storage tank and remaining contents were disposed by Petroleum Equipment Maintenance Co. of Portland Oregon. P.E.M.C.O. also removed soil sample and had analyzed.

As per your phone conversation with Rodger Holcomb on August 2, 1930 and the test results, which indicate contamination, Warm Springs Forest Products Industries is currently contacting consultants to develop and file a corrective action plan.

Thank you for help in this matter.

sincerely,

Robert W. Mack Sr General Manager

Enclosure RWM:dt Roger.
Ather than phone commontains, this is the only informer have relative to our tank unwood.
Robut U. Hayyer.

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

	PROJ	O. PR	DECTI	IAME	<u> </u>				SAMPI	ER	ANAL	YSIS	TYP	ERE	CUE	STED			ution Vi		-
	2691	AD	Hy	3	1,3800	uan		pros, or		Sects	BIEX 602/8020	VPH	odified	R)	GREASE	, Pb	(8) 8 (8)	080	Solv.	point	
	SAMPLE MAISERY	DATE	TIME	WATER !	100	Sauce	C	TANK SIZE:	DEPT	u:	BTEX 602/80	BTEX, 3810 M	Gasol 8015 M	418.1	OIL & 413.1	Cd, Cr	Metal	608/8 608/8	Chlor 601/80	Flash 1010	
		7/11/70	1030		XX	Boll	owa 7	Tank P.1	q=+_ ;	101-			100 m	X							
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	-	-	+		+																
	Relevent	shed by:	- 200	111		Time SEO	Pecen	Pill Kritz			•			-	RUS	H	YES	(N	9		
	Bellinger Representation	Kn		16/9	0 /	1:16 1:16 1:16	mi	wed by: **E Sphilling ***C by babountory	5						M		P. Ports	O. Bo	clum oz II	9721	hed.



PETROLEUM EQUIPMENT MAINTENANCE CO.



P.O. BOX 11569 • 2310 NE COLUMBIA BLVD. PORTLAND, OREGON 97211-0588 (603) 288-7541

CLENT REPORT INFORMATION	
JOB LOCATION	JOB #OR
TYPE OF SOIL CONDITIONS:	
WATER TABLE ENCOUNTERED YES NO DE VISUAL BIGNS OF CONTAMINATION OR OBOR? YES	majer
GRAPHIC SHOWING TANK FARM AND SAMPLING LOCATION	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
POND	
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32.9 11/1/1/11

Building

Moulding





0405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 844-0880 FAX # (500) 644-2202

July 23, 1990

PENCO P.O. Box 11569 Portland, OR 97211

Attn: Brad Harris

Re: JOB #2691 PEL #90-1956

Enclosed is the lab report for your sample which was received on July 16, 1990.

I. Sample Description

One Boil Sample

The sample was received under a chain of custody.

The sample was received in a container consistent with EPA protocol.

II. Quality Control

No project specific QC was requested. In-house QC data is available upon request.

III. Analytical Results

Test methods may include minor modifications of published methods such as detection limits or parameter lists. Solid and waste samples are reported on an "as received" basis unless otherwise noted.

compounds not detected are listed under results as ND.

sincerely,

Howard Holmes Lab Manager Howard Boorse

Page 2 of 2



PEL REPORT NUMBER: 90-1956 CLIENT: PEMCO JOB REFERENCE: 2691

DATE: ITEM: July 23, 1990 One Soil Sample

METHOD: Total Petroleum Hydrocarbons per EPA 418.1 Results in mg/kg (ppm)

1 2,300
Lab Blank ND
Detection Limit 5

September 14, 1990

Roger Smith, Project Manager Roger Smith & Associates, Inc. 1400 S.W. Davenport Portland, Oregon 97201

Dear Roger:

Enclosed are the results of the analyses of samples submitted on September 11, 1990 from Project 90-171.

We appreciate this opportunity to be of service to you on this project. If you have any questions regarding this material, or if you just want to discuss any aspect of your projects, please do not hesitate to contact me.

Sincerely,

Robert J wallace

Robert J. Wallace Senior Chemist

RJW:so

Enclosures

Date of Report: September 14, 1990 Date Submitted: September 11, 1990

Project: 90-171

RESULTS OF ANALYSES OF ENVIRONMENTAL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS BY IR (EPA METHOD 418.1) (Soxhlet Extraction)

Sample #	Matrix	Dilution <u>Factor</u>	Total Petroleum <u>Hydrocarbons</u> (ppm)
P-North	Soil	3.72	59
P-Center	Soil	3.50	200
P-South	Soil	3.90 x10	2,800
Quality Assur	ance		
Method Blank			<10
9-44-2 (Original)	Soil		<10
9-44-2 (Duplicate)	Soil		<10

		<u>Ct</u>	Roger N GEOLOGICAL ROGER N Ground Wat 1400 S.W. Da Portland, OR	SMITHer and Evenport \$ 97201-22	H ASSOCIATES, INC. nvironmental Consultants St. 229 (503) 241-5444	PROJECT	NAME:	Warm Spring Pond	5
	Rile				1070	PROJECT	LOCATIO		/
SAMPLED BY:	RNS		DATE: 10 '	> ept	ember 1990	_ SITE NUM	MBER: _	90-171	
Sample Number	Date/Time Sampled	Type of Samples	* of Container		alyses		Commen	its	
P-North	7/9/90	5011	1	-	PH 418.1		at the second	<u>A</u>	_
P-Center	7/9/90	5.71	1	_	PH 418.1			-	_
P-South	7/9/90	501	1		PH 418.1				
						14 F			_
			14 14 141	1		in The second			S.
		7		1					
				- 675					
NAME:	by: (Signature) The F. Day N. Smith Associ	ger fates, Inc.	Date: 10/9	/90	Received by: (Sign NAME:	ature)		Date:	
•	by: (Signature)		Date:		Received by: (Sign	ature)		Date:	1
NAME:		A			NAME:			Time:	
FIRM:			Time:	F 1985	FIRM: Enviros Cor	poration		Client:	1
Additional Cor	mments:						- 185 - 186 - 1		



9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0680 FAX # (503) 644-2202

September 28, 1990

Roger N. Smith Associates, Inc. 1400 S.W. Davenport Street Portland, OR 97201

Attn: Roger Smith

Re: JOB #90-161

PROJECT - Warm Springs

PEL #90-2743

Enclosed is the lab report for your samples which were received on September 20, 1990.

I. Sample Description

Two Soil Samples One Water Sample

The samples were received under a chain of custody.

The samples were received in containers consistent with EPA protocol.

II. Quality Control

No project specific QC was requested. In-house QC data is available upon request.

III. Analytical Results

Test methods may include minor modifications of published methods such as detection limits or parameter lists. Solid and waste samples are reported on an "as received" basis unless otherwise noted.

Compounds not detected are listed under results as ND.

Sincerely,

Howard Holmes Lab Manager Howard Boorse

Page 2 of 2

PEL REPORT NUMBER:

CLIENT:

JOB NUMBER: PROJECT:

DATE:

ITEMS:

90-2743

Roger N. Smith Associates, Inc.

90-161

Warm Springs

September 23, 1990

Two Soil Samples

One Water Sample

Total Petroleum Hydrocarbons per EPA 418.1 METHOD:

Results in mg/kg (ppm)

Sample I.D.	TPH
5	ND
4	ND
Lab Blank	ND
Detection Limit	5

METHOD: BTEX per EPA 602

Results in ug/L (ppb)

Sample I.D.	Benzene	Toluene	Ethyl Benzene	Xylene	Detection Limit
1,2,3	ND	ND	ND	ND	1
Lab Blank	ND	ND	ND	ND	

			ROGER N. S Ground Water 1400 S.W. Daver Portland, OR. 97	SMITH ASSOCIATES, INC. and Environmental Consultants					
		Cha	in of Custo	ody Record	PROJECT	NAME:	Wastinspy	ingstorest Connets I	*
					PROJECT	LOCATIO	N:		_
SAMPLED BY:	RUS	D/	ATE: 20 Se	eptember 1990	_ SITE NUM	IBER: _	90-	161	
Sample Number	Date/Time Sampled	Type of Samples	* of Containers	Analyses Required		Commen	ts	V	
5	20 September 1990	5.1)	1-40ml	TPH 418.1		Profile	2 3'- 6	//	
4	20 September 1990	Soil	1 - 40ml	TPH 418.1		Water	- Table		
1,25	2) Peptember 1990	Water	3-40ml (ea)	BTEX (only one A on Auyo 2 Vons	tralyses	Trenc	L (bottle	s numbered 1, 2, 4;	3
				2 00/193		The state of the s			
						DISPO		S WILL BE CEIPT	
Relinquished	by (Signature)		ate: 20 September	Received by: (Sign	ature) Richan	ds	Date: .	9/20/90	
/	N. Smith A		Ime: 4:30	FIRM:	PEL		Time:	5:00	
0	by: (Signature)	A TOWN OF THE PERSON NAMED IN	ate:	Received by: (Sign					5000
NAME:				NAME:	O .		Time: _	A	200
FIRM:		T	Ime:	FIRM:				Client:	
Additional Com	ments:		PEL	90-2743	Variation of				_

Roger N. Simm

WATER WELL LOGS

for wells near a former UST located at the:

WARM SPRINGS FOREST PRODUCTS INDUSTRIES

Warm Springs, Oregon

September, 1990

WATER RESOURCES DEPARTMENT. SALEM, OREGON 97310 Within 30 days from the date WATER WELL CONTRACTOR STATE OF (Please type	OREGON LANGE 1070			-'
of well completion WATER RESOURCE OF DEPTITE al	bove (b)s the products of the	No		
(1) OWNER: Confederated Tribes of Warm Spin			No.	
	A 41 29			
Address 12 Man South Out 27761	County Jefferson Driller's well r		78	5
Address Warm Springs, Ore 77761	14 14 Section 29 T. 95		37=	W.M.
(2) TYPE OF WORK (check):	Bearing and distance from section or subdivis			
New Well Deepening Reconditioning Abandon If abandonment, describe material and procedure in Item 12.	Located Discharge Ricon		i Dit	(1)
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(11) WATER LEVEL: Completed v	vell.		
Rotary Driven Demestic (St. Industrial D. Municipal D.	Depth at which water was first found	40		ft.
Dug Bored I Irrigation Test Well Other	Static level 7 ft. below land			23/27
	Artesian pressure lbs. per squa	re inch.	Date	N. S.
(5) CASING INSTALLED: Threaded Welded Welded W	(12) WELL LOG: Diameter of well		WE WILLIAM TO	£ '*
" Diam. from ft. to ft. Gage	Depth drilled 95 ft. Depth of comp			
" Diam. from ft. to ft. Gage	Formation: Describe color, texture, grain size and show thickness and nature of each strate	im and a	quifer n	notrated
(6) PERFORATIONS: Perforated? 99 Yes No.	with at least one entry for each change of forms position of Static Water Level and indicate pri	ation. Ren	ort each	change in
Type of perforator used Cutting dench	MATERIAL	From	To	SWL
Size of perforations 1/16 in. by 6 in.	TOP SOIL	0	4	
30 perforations from 20 ft. to 30 ft.	gravel; boulders	4	20	
perforations from ft. to ft.	Travel Curates Changery	20	30	7
perforations from tt. to tt.	- yellow chay	30	7.5	7
(7) SCREENS: Well screen installed? Yes No				# 1 h
Yanufacturer's Name				30
Diam. Slot size Set from ft. to ft.		5,585		
Diam. Slot size Set from ft. to ft.				100
8) WELL TESTS: Drawdown is amount water level is lowered below static level				
Was a pump test made? ★ Yes □ No If yes, by whom?			N. 103	1.002.
field: 15 gal./min. with 10 ft. drawdown after / hrs.			- ANI	A COLUMN TO THE REAL PROPERTY.
			7.295	S. STATE
" " "		10000	Media	
Gailer test gal./min. with ft. drawdown after hrs.				
Artesian flow g.p.m.				
Temperature of water Depth artesian flow encountered ft.	Work started 11/22 19 27 Complet	ed	1/20	1977
9) CONSTRUCTION:	Date well drilling machine moved off of well		11/2	8 19 77
Well seal-Material used Cement	Drilling Machine Operator's Certification:		/	
rell sealed from land surface to	This well was constructed under my	direct	super	vision.
lameter of well bore to bottom of seal	Materials used and information reported best knowledge and belief.	above a	are true	to my
Diameter of well bore below seal	[Signed]	Date	1/10	1078
umber of sacks of cement used in well seal S sacks	(Drilling Machine Operator)	20	9	, 20.1
ow was cement grout placed? Pressure pumped	Drilling Machine Operator's License No.		<u></u>	
	Water Well Contractor's Certification:			
	This well was drilled under my jurisd true to the best of my knowledge and bel	iction an	d this r	eport is
was a drive shoe used? Yes No Plugs Size: location ft.	Name FICH FOX Well	Dei /	1/00	
Did any strata contain unusable water? Yes So	(Person, firm or corporation)	(Ty	pe of prin	t)
ype of water? depth of strata	Address Y 2 Ocx 202	neun	1/20	2972
wethod of sealing strata off	[Signed] (Inchie for		'	
Was well gravel packed? Tyes to Size of gravel:	(Water Well Contr			
ravel placed from	Contractor's License No. 444 Date	110		, 1938
(USE ADDITIONAL SHE	EETS IF NECESCARY			

1 895/13E-318 EP - 9 1986 STATE OF OREGON WATER RESOURCES DEPT WATER WELL REPORT (as required by ORS 537.765) (9) LOCATION OF WELL by legal description: (1) 0**WNER** (b) (6) Owner's Well Number: Name County Jeff Latitude _____ Longitude PO Box 664 Address Township N or S, Range Warm Springs SE Section_ (2) TYPE OF WORK: Lot . Block ___ Subdivision . New Well Deepen Recondition Abandon Street Address of Well (or nearest address) _ (3) DRILL METHOD: Rotary Air . ☐ Cable (10) STATIC WATER LEVEL: Rotary Mud Other 200 ft. below land surface. Date 8/16/86 ____ lb. per square inch. Artesian pressure ___ 4) PROPOSED USE: (11) WELL LOG: Ground elevation ☐ Industrial Domestic Community ☐ Irrigation Other . ☐ Injection Material From ☐ Thermal WB? SWL ton soil 0 5) BORE HOLE CONSTRUCTION: Depth of Completed Well 650 boulders & clay 13 clay (brown) 13 Special Standards date of approval SEAL clay (white) 135 Amount sacks or pounds 135 sundstone 389 WB 223 clay (green) sandstone 389 401 401 clay - stone 439 clay (green) 439 WB 492 How was seal placed? Method A B C D 492 560 clay (brown) Other_ 597 560 sandstone Backfill placed from ____ _ ft. to _ _ ft. Material . clay & sed. Gravel placed from __ ft. to_ _ ft. Size of gravel 621 632 WB clay (green) (6) CASING/LINER: basalt (broken) 632 655 Gauge Steel Djameter From Plastic Welded Threaded X Casing: ---П П Final location of shoe(s). (7) PERFORATIONS/SCREENS: Perforations Method . ☐ Screens Material. Slot Tele/pipe From To size Number Diameter Casing Liner 8/16/86 Date started. Completed (8) WELL TESTS: Minimum testing time is 1 hour (unbonded) Water Well Constructor Certification: Flowing I constructed this well in compliance with Oregon well construction ☐ Artesian ☐ Pump ☐ Bailer Air standards. Materials used and information reported above are true to my best Yield gal/min Pumping level Drill stem at Time knowledge and belief. 1/2 hr Signed _ 1 hr test) (Bailer (bonded) Water Well Constructor Certification: 4 I accept responsibility for construction of this well and its compliance Temperature of water. Depth Artesian Flow Found with all Oregon water well standards. This report is true to the best of my knowledge and belief. Was a water analysis done? Yes By whom _

Did any strata contain water not suitable for intended use? Too little

□ Salty □ Muddy □ Odor □ Colored □ Other □

Depth of strata:

Co. Job No. 15

DEC 1 0 1986 JAN 14 1987 STATE OF OREGON ATER WELL REPORT WATER RESOURCES DEPT. WATER RESOURCES DEPT. SALEM, OREGON (9) LOCATION OF WELL by legal description: 1) OWNED. mber: _ Longitude _ County Jeffer garage Address P.O. Rox 664 ____ Nor S, Range 13 ity Warm Springs State Ore. Zip 97761 SF. 4 SW Tax Lot 1100 2) TYPE OF WORK: New Well ☐ Deepen Recondition Street Address of Well (or nearest address) 3) DRILL METHOD: Rotary Air Rotary Mud Cable Other (10) STATIC WATER LEVEL: 20 Date 12-6-86 ft. below land surface. Artesian pressure _ ____ lb. per square inch. 4) PROPOSED USE: (11) WELL LOG: Ground elevation . Domestic . Community ☐ Industrial ☐ Irrigation Other _ Thermal ☐ Injection Material From WB? SWL Sandy Loam Top Soil 0 3 BORE HOLE CONSTRUCTION: Depth of Completed Well _ Tan -Claystone ---20 Special Standards date of approval Cobbles, large gravel HOLE SEAL Amount Sand --- -- 4 --- 5ns 3-18 - 20 20 34 Diameter From To Material From To sacks or pounds Tan Clay & Fumice 34 80 0 18 cement 0 -18 8 18 30 30 80 How was seal placed? Method A B & C D D E ckfill placed from _ ft. to_ Gravel placed from . Size of gravel 6) CASING/LINER: Diameter From To Gauge Steel Plastic Welded Threaded using: 6" +1 1-80-250 X inal location of shoe(s) (7) PERFORATIONS/SCREENS: Methodacetylene torch Perforations Screens Type_ Material Tele/pipe . Number Diameter Liner Size 30 /8 20 V 80 /8 20 X Completed 12-6-86 (8) WELL TESTS: Minimum testing time is 1 hour (unbonded) Water Well Constructor Certification: Flowing I constructed this well in compliance with Oregon well construction -Pump M Bailer ☐ Artesian ☐ Air standards. Materials used and information reported above are true to my best Yield gal/min Pumping level Drill stem at Time knowledge and belief. 1/2 hr Signed _ (bonded) Water Well Constructor Certification: I accept responsibility for construction of this well and its compliance emperature of water Depth Artesian Flow Found . with all Oregon water well standards. This report is true to the best of my knowledge and belief. A as a water analysis done? Yes By whom _ Did any strata contain water not suitable for intended use?

Too little Salty Muddy Odor Colored Other_

epth of strata:

_ Co. Job No. 25_00

MEVELVED

STATE OF OREGON

EP- 3 1986

WATER WELL REPORTMATER RESOURCES DEPT

895/13W-31d

(1) OWNED. Owner's Well Number:	(9) LOCATION OF WELL by legal description:
Name (D) (O)	County Jeff Latitude "Longitude"
Address PO BOX 661	Township 19 Nor S, Range 13 E or W, WM. Section 31 Siz 1/4 1/4
City Warm Springs State OR Zip	Section31
(2) TYPE OF WORK:	Tax Lot Lot Block Subdivision
New Well Deepen Recondition Abandon	Street Address of Well (or nearest address)
(3) DRILL METHOD:	
Rotary Air Rotary Mud Cable Other	(10) STATIC WATER LEVEL:
The state of the s	ft. below land surface. Date
(4) PROPOSED USE:	Artesian pressurelb. per square inch. Date
Domestic Community Industrial Irrigation	(11) WELL LOG: Ground elevation
☐ Thermal ☐ Injection ☐ Other	Material From To WB? SWL
(5) BORE HOLE CONSTRUCTION:	top soil 0 1
Depth of Completed Well 55	n boulders & clay 1 17
Special Standards date of approval N/A HOLE SEAL Amount	_ clay 17 35 boulders 35 96
Diameter From To Material From To sacks or pounds	clay (green) 96 103
12 0 24 cement 0 24 10	- clay (brown) 103 121
	- clay (green) 121 140
How was seal placed? Method	Wale would not atom
Other	Hole would not stay
Backfill placed fromft. Material	open without casing. Because of no water
Gravel placed from ft. to ft. Size of gravel	= this was not installed.
(6) CASING/LINER:	
Casing: 6 To Gauge Steel Plastic Welded Thread	led
Casing:	
Liner:	
Final location of shoe(s)	
(7) PERFORATIONS/SCREENS:	
Perforations Method N/A	
☐ Screens Type Material	All the second of the second o
Slot Tele/pipe From To size Number Diameter size Casing Line	or I
	AGE
	Date started 7/28/86 Completed 9/1/86
(8) WELL TESTS: Minimum testing time is 1 hour	(unbonded) Water Well Constructor Certification:
Flowing	I constructed this well in compliance with Oregon well construction
☐ Pump ☐ Bailer ☐ Air ☐ Artesian Yield gal/min Pumping level Drill stem at Time	standards. Materials used and information reported above are true to my bes
1/2 hr	- 1966 by both alla
(no water) 1hr	Signed Signed Date 4/1/86
	(bonded) Water Well Constructor Certification:
	I accept responsibility for construction of this well and its compliance
Temperature of water Depth Artesian Flow Found	with all Oregon water well standards. This report is true to the best of my knowledge and belief.
Was a water analysis done?	- Will a by Hull och be
Salty Muddy Odor Colored Other	Signed Date 1/1/06
Depth of strata:	Common Box Viette Daylling 1271
	Company Co. Job No. 13/

STATE OF OREGON WATER WELL REPORT

RELEIVED

SEP - 8 1986

WATER RESOURCES DEPT (as required by ORS 537.765) Owner's Well Number: ORECON (9) LOCATION OF WELL by legal description: (1) OWNER: David Harding County Jeff Latitude ____ Longitude PO Box 664 1 C) N or S, Range __ Address 13 E or W, WM. Warm Springs State SE 4 (2) TYPE OF WORK: _ Lot _ _ Block __ _ Subdivision _ Street Address of Well (or nearest address) _ Recondition Abandon New Well Deepen (3) DRILL METHOD: (10) STATIC WATER LEVEL: ☐ Cable Other Rotary Air Rotary Mud 223 ft. below land surface. 1 lb. per square inch. Artesian pressure _ 4) PROPOSED USE: (11) WELL LOG: Ground elevation ☐ Industrial N Domestic Community ☐ Irrigation ☐ Injection Other _ Material From WB? SWL ☐ Thermal too soil (5) BORE HOLE CONSTRUCTION: boulders & clay Depth of Completed Well _ 143 clay (brown) Special Standards date of approval _ cley (green) 143 223 HOLE SEAL Amount Material From Cement O sacks or pounds Diameter From From 223 clay & sed. 230 clay (green) Casing would be recomended to com-plete the hole, but Other_ due to lack of water Backfill placed from ____ _ ft. to __ ___ ft. Material it was not installed Gravel placed from ___ __ ft. to ___ ___ ft. Size of gravel (6) CASING/LINER: Gauge Steel Plastic Diameter From Welded Threaded X K Final location of shoe(s). (7) PERFORATIONS/SCREENS: Method _____N/A A-71.74 EC. Twi a oft. the a secretary in Perforations Screens Material . Slot Tele/pipe To Number Diameter From size Casing Liner 5/8/86 8/4/86 Date started_ Completed_ (unbonded) Water Well Constructor Certification: (8) WELL TESTS: Minimum testing time is 1 hour I constructed this well in compliance with Oregon well construction Flowing Artesian ☐ Pump ☐ Bailer Air standards. Materials used and information reported above are true to my best knowledge and belief. Yield gal/min Pumping level Drill stem at Time 1 gol. 230 ft. 1/2 hr Signed Tot draw dbym) (bonded) Water Well Constructor Certification: I accept responsibility for construction of this well and its compliance with all Oregon water well standards. This report is true to the best of my Temperature of water. Depth Artesian Flow Found knowledge and belief. Was a water analysis done? Yes By whom _ Did any strata contain water not suitable for intended use? Too little ☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other _ Depth of strata: _

Go. Job No.

STATE OF OREGON

1 1386

WATER WELL REPORT
(as required by ORS 537.765) ATER RESOURCES DEPT.

RECEIVED JAN 14 1987

							Con
(1) OWNER: Name Mr. & Mrs. Davi	Owner's Well	Number: WA	SA EM OREGON	egal d	lescrip	tion:	
Address P.O. Box 664	d harding	-	SALEM, OBEGOUR AND ALE	1 1	Longitud	e	, ,
	State Ore	e. Zip 97761	Township 19 Nor S, Range Section 31 SE 4	13	•	_E or X,	WM.
(2) TYPE OF WORK:	020		Tax Lot 1100 Lot Block	24	¼		
	Recondition [Abandon	Tax Lot 1100 Lot Block Street Address of Well (or nearest address)			ALM 221	-
(3) DRILL METHOD:	recondition L	Abandon	Street Address of Well (or hearest address)	7.4	William I	100	1
Rotary Air Rotary Mud	☑ Cable □	Other	(10) STATIC WATER LEVEL		4, 7, 1	1000	100
La Rotary Midd	LE Cable	Johner				12 6	00
		10 -000	It. below land surface.				-00
(4) PROPOSED USE:			Artesian pressure lb. per s	quare in	ch. Date	-	
8 Domestic □ Community □	Industrial D	rrigation	(11) WELL LOG: Ground elevati	on	715.7	teles in	300
	Other	The state of the	Material	From	То	WB?	SWL
, BORE HOLE CONSTI	RUCTION:	4 1 2 T	Sandy Loam Top Soil	0	3		
	f Completed Well		Tan Claystone	3	20		
	Standards date of ap		Cobbles, large gravel		116		2311
HOLE Diameter From To Material H	From To	Amount sacks or pounds	& Sand	20	34	X	20
		the state of the s	Tan Clay & Pumice	34	80	1	1
The state of the s	0 -18 1	1					
8 18 30		N 3 15 15 15 15			-0.7		
6" 30 80			11-4		133	1	To in
How was seal placed? Method A	пв кис П п) LE		TA	1.17		
Backfill placed fromft. to	A Matarial				J		
Gravel placed fromft. to					17.36	1	
(6) CASING/LINER:	Tr. Size of gra	vei					
Diameter From To G	auge Steel Plas	tic Welded Threaded					
Casing: 6" +1 -80 .	250 ☒ □						
6 2 48 5 5			-	-	-		
					1 2		
						registre .	
Liner:			M. J. M. 195 S. T. 1879			200	
					N.A.	139.8	100
Final location of shoe(s)				30. 36	100 E		
PERFORATIONS/SCI					13.3	Age 2	The second
Perforations Method ac	cetylene	torch				1 Section	1
Screens Type		erial			1	0.7/1-	
From To size Number	Tele/pi Diameter size	Casing Liner			S. Car	Tay 1	300
1 +30 1/8 20				10	1	Diego.	9994
70 +80 1/8 20					W-119	1000	100
					5 -		
	100		Date started 12-3-86 Com	mla : - 1	12-6-	86	
(0) 111111 1 11111							
(8) WELL TESTS: Minimu	ım testing tim	e is 1 hour _ Flowing	(unbonded) Water Well Constructor Ce				
☐ Pump 🖾 Bailer	☐ Air	Artesian	I constructed this well in compliance standards. Materials used and information	e with	Oregon	well cons	struction
Yield gal/min Pumping level	Drill stem at	Time	knowledge and belief.	reported	above a	re true to	my bes
10 80		1 ½ hr	Simod				
		1 hr	Signed		_ Date _		
		-	(bonded) Water Well Constructor Certi				
Temperature of water540	Donal A	Slave Power	I accept responsibility for construction	n of th	is well ar	nd its co	mpliance
	Depth Artesian F By whom	low round	with all Oregon water well standards. This knowledge and belief.	report	is true t	the be	st of my
Did any strata contain water not suitable for		Too little	FOXX 111				
Salty Muddy Odor Colo	red Other	. Jo neue	Signed Signed	I	Date 12.	-6-86	<u> </u>
Depth of strata.			Company Brg Three Drilling	α.			
	the state of the s			-1	O Joh N	DOLLINE	00

WATER WELL REPORT (as required by ORS 537.765)



1688	
9-1125-	21-1
1-11	2100

(1) OWNER: Owner's Well Number: VIATER DES	(9) LOCATION OF WELL by legal description:
Address P. O. Box 639	TOURITUGE
City Warm Springs State Oregon Zip 97761	Township 95 Nor S, Range 13E E or W, WM.
(2) TYPE OF WORK:	Section 31 SE 14 SW 14
New Well Deepen Recondition Abandon	Tax Lot Lot Block Subdivision Street Address of Well (or nearest address) 7228 N. Hay 26
(3) DRILL METHOD:	Magias OR
Rotary Air Rotary Mud Cable Other	
Cable Other	(10) STATIC WATER LEVEL:
(4) PROPOSED USE:	Artesian pressurelb. per square inch. Date
Domestic Community Industrial Irrigation	(11) WELL LOG: Ground elevation
☐ Thermal ☐ Injection ☐ Other	Material From To WB? SWL
(5) BORE HOLE CONSTRUCTION:	topsoil U Z
Depth of Completed Well 170 ft.	brown coarse sandstone 2 24
Special Standards date of approval	brown coarse conglomerate 24 48 1
Diameter From To Meterial From To	yellow coarse clay & gravel 48 72
Diameter From To Material From 15 6 Sacks or pounds	
8" 18 170	blue coarse clay 72 170
	temporarily abandomment
How was seal placed? Method	
Other	
Backfill placed fromft. Material	
Gravel placed from ft. to ft. Size of gravel	
(6) CASING/LINER:	
Diameter From To Gauge Steel Plastic Welded Threaded	
Casing: 8" +2 -18 .250	
Liner:	3
Final location of shoe(s)	
(7) PERFORATIONS/SCREENS:	
Perforations Method	
Screens TypeMaterial	
Slot Tele/pipe	and the second of the second o
From 10 size Number Diameter size Casing Liner	
N/A D T	
	Date started 5-27-88 Completed 6-1-88
(8) WELL TESTS: Minimum testing time is 1 hour	Completed
Flowing	(unbonded) Water Well Constructor Certification:
☐ Pump ☐ Bailer ☐ Air ☐ Artesian	I constructed this well in compliance with Oregon well construction standards. Materials used and information reported above are true to my best
Yield gal/min Pumping level Drill stem at Time	knowledge and belief.
N/A 1hr	Cimad
N/A 1hr	Signed Date
	(bonded) Water Well Constructor Certification:
Temperature of water Denth Artesian Flow Found	I accept responsibility for construction of this well and its compliance
Temperature of water Depth Artesian Flow Found Was a water analysis done? Yes By whom	with all Oregon water well standards. This report is true to the best of my knowledge and belief.
Did any strata contain water not suitable for intended use? Too little	,
Salty Muddy Odor Colored Other	Signed Date 6-1-88
Depth of strata:	Describera Lail C. 111
	Company Co Joh No

STATE OF OREGON WATER WELL REPORT (as required by ORS 537.765)

	16	89		51
W. A	9.	11.	2 -	 ,

		1,7		34 (-19)		1		1000
(1) OWNE Name (b) (R: 6)	Owner's Well N	umberis List Office	(9) LOCATION OF WELL by				
Address F.	U. BOX 627		•	County Jeffer SOn Latitude Nor S, Rang	130	Longitud	e	
City WE	arm Springs	State OF.	Zip 7761				_E or W,	WM.
	OF WORK		7 30 2	Section 31 SE 1/4				
	OF WORK:			Tax Lot Bloc				
New Well	☐ Deepen ☐	Recondition	Abandon	Street Address of Well (or nearest address)	#220	N. Hm	y. 26	
(3) DRILL	METHOD:			Modres, Or.	-			
Rotary Air	Rotary Mud	☐ Cable ☐	Other	(10) STATIC WATER LEVEL	. :	Date	6/1	-
				Artesian pressure lb. per	square inc	h. Date		
4) PROPO	SED USE:			(11) WELL LOC.			91 1 191	The .
Domestic	Community [☐ Industrial ☐ In	rigation	(11) WELL LOG: Ground elevat	ion			
☐ Thermal	☐ Injection [Other		Material	From	To	WB?	SWL
5) BORE	HOLE CONS	TRUCTION:		Topsbil	0	2		200
, 20102		n of Completed Well	105 . ft.	Brown course sandstone	2	22	1	S. Sank
		al Standards date of app		Large course grayel	22	30 -		300
HOLE	op.c.	SEAL	Amount	Yellow fine clay	30	67		1
Diameter From	n To Material		sacks or pounds	Yellow clay and course	70	67	6110	NA STATE
				gravel	(7	100		
12 0	18 cement	0 18	7 sks		67	100	yes	66
8 18	105	93 18 1		Blue course clay	100	105	9700	11
			A CONTRACTOR OF THE CONTRACTOR		-	2 50		
How was seal play	ced? Method	□в □с □р	DE	The second secon			0.0	200
Other						19	miles !	
And the second second	om ft. to	ft. Material		1	100	1	1	
A CONTRACTOR OF THE PROPERTY OF THE PARTY OF							40%	
	7.0	ft. Size of grav	el				800	
(6) CASIN			-0.5			The second	Charles .	
			ic Welded Threaded		1	1	1. 0	1 3 3 7
Casing: 8tt	+2 -18				7		1	-
					1			
pr - man					-		12 1	1
						6.55	1000	
Liner:						1		-
6"	-5 -105	188 🖾 🗆			-		1.11	11.00
Final location of	shoe(s)						200	1
(7) PERF	DRATIONS/S	CREENS.						
	A CAN CAN CAN CAN CAN CAN CAN CAN CAN CA			A STATE OF THE STA	Mary.			100
Perfora		Torch						
Screens	and the same of the same of the same	Mate			-			
From To	Slot size Numbe	Tele/pip				41		
From To	5 Size Number	Pr Diameter size	Casing Liner			1 1 3	1.0.0	1
	-			17.00	178	The s		15 78
			_		FR3	1121	1.50	1549
				A. T. S. L.	-	S. 43	84.6	12.
					1	- 14	124	
				Date started 6/1/88 Con	1	/1/99		- Marin
				Date started 0/ 1/ 00 Cor	mpleted 5	11/08		
(8) WELL	TESTS: Mini	mum testing time	is 1 hour	(unbonded) Water Well Constructor C	ertifica	tion:		
☐ Pump		☐ Air	Flowing	I constructed this well in complian	ce with	Oregon	well con	struction
Annual Control of the	Sailer Bailer		☐ Artesian	standards. Materials used and information	reported	above a	re true to	my bes
Yield gal/min	- rumping level	Drill stem at	Time	knowledge and belief.				
10 0014	1		½ hr	Simed		Det		
LO GPM	-		1 hr	Signed	2	_ Date _		
			-	(bonded) Water Well Constructor Cert	ificatio	n: •		
				I accept responsibility for construction			nd ite oo	mpliona
Cemperature of w	ater	Depth Artesian Fl	ow Found	with all Oregon water well standards. This	is report	is true t	the be	est of m
Vas a water analy	vsis done? Yes	By whom		knowledge and belief.	1			
Did any strata co		le for intended use?	Too little	Signed Jany K Can fine	P	1	1.1	00
		colored Other		Signed The Signed	I	Date	111	00
Depth of strata: _				a constant to the				,
				Company Cle. ford Leli Drill	-10 (Co. Job N	0	

WATER RESOURCES DEPARTMENT. SALEM, OREGON 97310 within 30 days from the date

MACHAS WILST WATER WELL REPORT

STATE OF OREGON

(Please type or print)



			1 : :	1
State	Well	No.	***************************************	
State	Pern	nit N	No.	

of well completion. (Do not write a	above this line) State Permit	No	•••••••	***************************************
(1) OWNER:	(10) LOCATION OF WELL:	The second		-
Name (b) (6)	County JEFERSON Driller's well i	number	44.	0
Address (CER) Species, 1981	34 % Section 7 T. 95			W.1
(2) TYPE OF WORK (check):	Bearing and distance from section or subdivi-	ion corn	er	
	- SMARKELL TEN			Will Fr
New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐			100	
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed	vell	THE REAL PROPERTY.	
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found	21	,	38.4
Rotary Driven Domestic Dindustrial Municipal Domestic				11 10
Dug	Artesian pressure NCNT lbs. per squa	100000000000000000000000000000000000000		111
(5) CASING INSTALLED: Threaded Welded	(19) THEFT TOG	3 3 7		
Diam. from + 1 ft. to 2 ft. Gage	(12) WELL LOG: Diameter of well			
" Diam. from ft. to ft. Gage	Depth drilled ft. Depth of comp			f
" Diam. from ft. to ft. Gage	Formation: Describe color, texture, grain size and show thickness and nature of each strate	and stru	cture of	material
(6) PERFORATIONS: Perforated? A ves C No.	with at least one entry for each change of form	tion Day	sout sock	
(6) PERFORATIONS: Perforated? Yes No.	position of Static Water Level and indicate pri	ncipal wa	ater-bear	ing strat
16	MATERIAL	From	To	SWL
Size of perforations /// in. by in.	Top Soil	6	1	
perforations from 20 ft. to 30 ft.	GRAVEL & CLAY	1	4	1
perforations from	IAN CIAY	4	21	15
	CORRECT SANGE GANEL	2/	28	15
(7) SCREENS: Well screen installed? Yes No	- THE CHY	(,'e	3.5	15
Manufacturer's Name			1.00	
Type Model No Diam Slot size Set from ft. to ft.	- GEORIUE A		27.35	1
Diam. Slot size Set from ft. to ft.		A = 11/2		-
	NOV - 7 1979		297	
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	- NOV- (1975		1100	199
Was a pump test made? ☐ Yes ☐ No If yes, by whom?	WATER LESOURCES DEPT	4		
Yield: gal /min with the day is	SALEM. OREGON		- 100	
gai./mm. with it. drawdown after hrs.	77 72	1		
" "			177	
Bailer test /2 gal./min. with ft. drawdown after / hrs.	F. C. W. S.	70.0		
		782	62.7	
Artesian flow NONE g.p.m		100	es maree	1 116
Temperature of water 55 Depth artesian flow encountered ft.	Work started 10/31 1979 Complet	ed /	11.1	19 79
(9) CONSTRUCTION:	Date well drilling machine moved off of well	111	1	197
Well seal-Material used Constant Constant	Drilling Machine Operator's Certification:	,		
Well sealed from land surface to 16 ft.	This well was constructed under my	direct	super	vision
Diameter of well bore to bottom of seal	Materials used and information reported best knowledge and belief	above	are true	e to my
Diameter of well bore below seal in.	[Signed] (41) (Lauden)	Det- /	1/20	. 7
Number of sacks of cement used in well seal	(Drilling Machine Operator)	Date		, 19
How was cement grout placed? Fill the 11 11 161 161 1110	Drilling Machine Operator's License No.	123	/	***************************************
Justin PARTE STERRY LOCATION UP	Water Well Contractor's Certification:			
	This well was drilled under my jurisdi	ction a	of this	encet (
Was a drive shoe used? ☐ Yes ☑ No Plugs Size: location ft.	tive to the best of my knowledge and hel	of		eport is
Did any strata contain unusable water? Yes No	Name (Person, firm or corporation)	1.100	•••••	
Type of water? depth of strata	Address Fill Pox 750 PRINT	11/1	pe or pri	nt)
Method of sealing strata off	,		***********	<i></i>
Was well gravel packed? ☐ Yes ☐ No Size of gravel:	[Signed]			
Gravel placed from	(Water Well Contr.	actor)		
II. IO ft.	Contractor's License No Date			, 19

34 % Section 7 T. 75			W.M.
Bearing and distance from section or subdivis	sion corn	er	
- SMARKER TRACE	- 0	- West	
(11) WATER LEVEL: Completed v	rell	100	100
Depth at which water was first found	21	,	ft.
Static level (5 ft. below land	surface	Date /	11 11
Artesian pressure NCNC lbs. per squa			11/11
(12) WELL LOG: Diameter of well	below ca	sing (4
Depth drilled 75, ft. Depth of comp			ft.
Formation: Describe color, texture, grain size and show thickness and nature of each strati with at least one entry for each change of format position of Static Water Level and indicate pri	um and a	aquifer p	penetrated,
MATERIAL	From	То	SWL
Top Soil	0	1	The same
GEAVEL & CLAY	1	4	1 1
IMN CIHX	4	21	15
COARSE GANGE GENEL	2/	28	15
THE CITY	(10)	3.5	15
		1 1 1 1	
- APRILE FA		87	
RECEIVED	A = 11/2		441
NOV - 7 1979		246	
NOV- CIOIS		1 1 3 4	
WATER RESOURCES DEPT	4		134
SALEM. OREGON	7		
1 1 1 1 1 1 1 1 1 1 1 1 1 1			
		24.5	19. 9
THE RESERVE OF THE PARTY OF THE	1		7 112
	1387	9.	
10/01	1 100		100
Vork started 10/31 1979 Complete	ed /	11.1	1979
Date well drilling machine moved off of well	111	1	1979
Orilling Machine Operator's Certification:	,	a	
This well was constructed under my Materials used and information reported the throughout the second point of the second point	above	are true	e to my
Signed] (uit Clauseri	Date /	11-5	19 //
Orilling Machine Operator's License No.			8
Vater Well Contractor's Contract			
Vater Well Contractor's Certification:	۸.	02000 00	
This well was drilled under my jurisdirue to the best of my knowledge and bel	ief.	d this i	report is
(Person, firm or corporation) Address RILLEON 780 PRINT	' (T)	pe or pri	nt)
The state of the s			£